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Thank you for purchasing this product. Please read these operating instructions carefully in order to use the digital video camera correctly. Keep the instructions in a safe place after reading so that you can refer to them later.

Precautions

Before using the digital camera, please ensure that you read and understand the safety precautions described below.

- Do not try to open the case of the digital camera or attempt to modify this digital camera in any way. Maintenance and repairs should be carried out only by authorized service providers.
- Keep the digital camera away from water and other liquids. Do not use the digital camera with wet hands. Never use the digital camera in the rain or snow. Moisture creates the danger of electric shock.
- Use only the recommended power accessories. Use of power sources not expressly recommended for this equipment may lead to overheating, distortion of the equipment, fire, electrical shock or other hazards.

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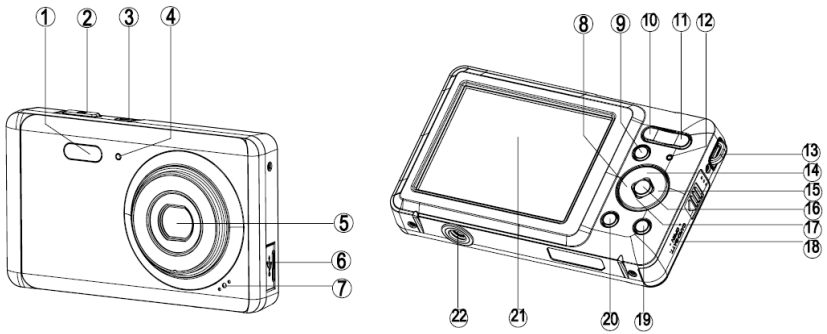
1. Parts of the digital camera



1: Flash strobe
2: Shutter button
3: Power button
4: Self-timer indicator light
5: Lens
6: USB jack
7: Microphone
8: Left/self-timer button
9: Playback button
10: Zoom out button
11: Zoom in button
12: Status indicator light
13: Hand strap
14: Up/Display button
15: Right / Flash button
16: Ok button
17: Down/Mode button
18: Battery /SD card cover
19: Delete Button
20: Menu button
21: TFT monitor screen
22: Tripod socket

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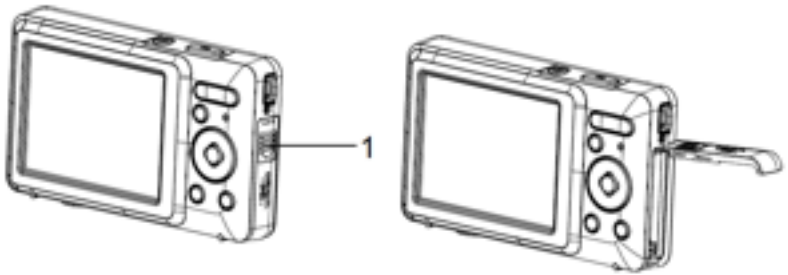
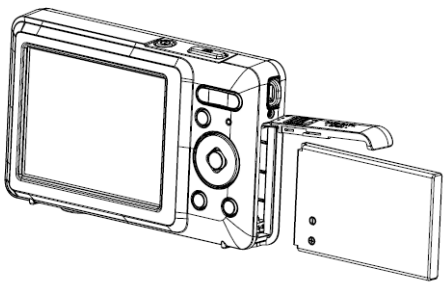
Installing the Battery

1: Push the lock button (1) down to open the battery cover.



2: Insert the battery with the positive (+) and negative (-) poles matching the directions indicated inside the battery compartment.

3: After the battery is properly installed, replace the battery cover until a clearly click is heard.



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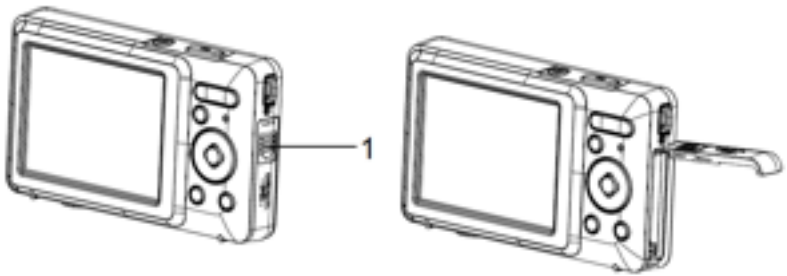
Charge the battery

Please charge the battery when the indicator shows the icon.

1: Power OFF; connect the AC-adaptor to the camera USB-port.
2: Plug the AC-adaptor to the electrical outlet.
3: Charging starts when charge indicator LED turns GREEN. The charge indicator light turns OFF when charging is completed.
4: Disconnect the camera.

Inserting the Memory Card

1. Turn off the digital camera.
2. Push the lock button (1) down to open the battery cover. And then you will see the SD card slot.



3. Insert the memory card to the card slot with the label against the LCD screen. Check the right direction before insert the memory card.

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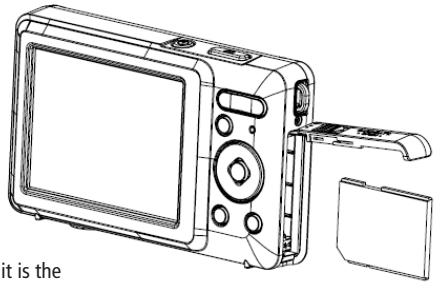
- To release the memory card open the battery cover firstly and then press the edge of the card gently.



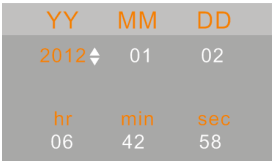
Format the memory card

It is important to format the memory card when it is the first time you use this digital camera. All data will be deleted including protected files. Be sure to download important files to your computer before formatting.

1: Turn the power on, and set the digital camera to the Setup Menu.
2: Press the Up/Display or Down/Mode button to select [Format] then press the OK button to launch the submenu.
3: Press the Up/Display or Down/Mode button to select the item [OK] and then press the OK button to launch the format submenu.
4: Press the Up/Display or Down/Mode button to select the item [Yes] and then press the OK button to erase all data.

Setting the Language

When using the digital camera for the first time after purchasing it, be sure to choose a language and set the date & time before using the digital camera.



1: Turn the power on, and set the digital camera to the Setup Menu.
2: Press the Up/Display or Down/Mode button to select [Language] then press the OK button to launch the submenu.
3: Press the Up/Display or Down/Mode button to select the desired language and then press the OK button to confirm the setting.

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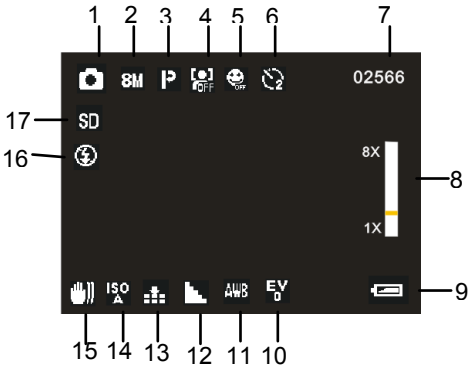
Setting the date and time

1: Turn the power on, press the MENU button to display the menu.
2: Press the Left or Right button to select [Capture Setting] Menu.
3: Press the Up or Down button to select [Date] then press the OK button to launch the submenu.
4: Press the Up or Down button to select [Set Date] then press the OK button to launch the dialog box.
5: Press the Up or Down button to change the highlighted value. Press the Left or Right button to move the cursor between settings.
6: Press the OK button to confirm the settings.

Note: The date and time can be only added to still images by setting the function [Date] in Capture Setting menu.

Monitor screen display

1. Camera Mode
- Still Image Capture
- Video recording
- Audio recording
- Playback



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2. Image Size
- 4000x3000
- 3648x2736
- 3264x2448
- 3072X2304
- 2592x1944
- 2048x1536
- 1600x1200
- 640x480

3. Scene Mode
- Auto
- Night Portrait
- Night Scenery
- Portrait
- Scenery
- Sport
- Party
- Beach
- High Sensitivity

4. Face Detect
- On
- Off

5. Smile Capture
- On
- Off

6. Self Timer
- Off
- 2 Seconds
- 5 Seconds
- 10 Seconds

7. Number of pictures Remaining on SD Card

8. Zoom Value Level

9. Battery Power Level
- Full
- Medium
- Low
- None

10. Exposure
- +3
- +2
- +1
- 0
- -1
- -2
- -3

11. White Balance
- Auto
- Daylight
- Cloudy
- Incandescent
- Fluorescent

12. Sharpness
- Sharp
- Normal
- Soft

13. Image Quality
- Super Fine
- Fine
- Normal

14. Iso
- Auto
- 100
- 200
- 400

15. Anti-Shake
- On
- Off

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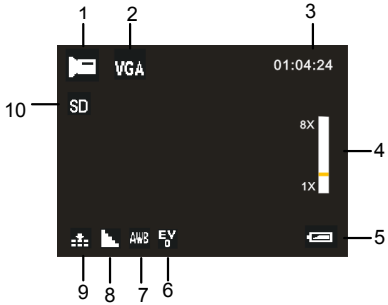
16. Flash Mode
- Always On
- Auto
- Off

17. SD Card inserted
- No protect status
- Protect status

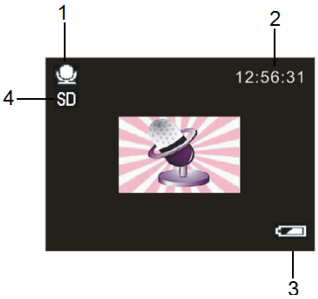
Video record mode [ ]

1. Video record icon
2. Video size
3. Recording time available
4. Zoom value level
5. Battery power level
6. Exposure
7. White Balance
8. Sharpness
9. Image quality
10. SD Card inserted



Audio mode [ ]

1. Audio recording icon
2. Audio recording time available
3. Battery power level
4. SD Card inserted



Playback mode [ ]

1 Playback still image icon
Playback movie clips icon
Playback audio recording icon

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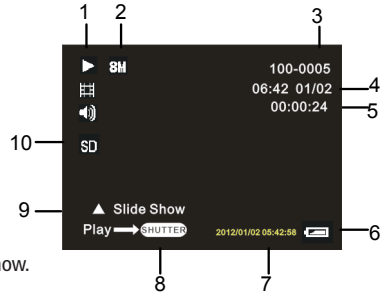
2. Image/Video size
3. File catalogue on SD card/
   Current Image Number#/
   Video#/Audio#
4. Date Imprint
5. Video recording time
6. Battery power level
7. Date stamp (Only still Image mode)
8. Press the SHUTTER button to playback video file
9. Press the UP button to automatically play slide show.
10. SD Card inserted



3. Using this digital camera

Turning the Digital camera On and Off

1. Press the POWER button to turn on the camera and press it again to turn the digital camera off. To save battery power, you can change the power-off time by setting the function [Auto Power Off] in the Setup menu.

Change the record mode

There are three modes in this digital camera.

1. Press the POWER button to turn on the digital camera.
2. Press the Down/Mode button to change the mode. Each time the Down/Mode button is pressed the mode icon is changed

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Display	Title	Description
	Capture mode	For taking still photos.
	Video mode	For recording movie clips.
	Audio mode	For recording audio files.
	Playback mode	For previewing record files.

Note:
You can only switch the digital camera to playback mode by using the PLAYBACK button. Press the PLAYBACK button to set the camera to playback mode and press it again to set it record mode.

Taking still images

1. Turn on the digital camera and set the digital camera to default capture mode, the icon appears on the LCD screen.
2. Zooming:
   Press the T or W button to zoom in or zoom out the screen. the value of magnification level appears on the LCD monitor.
3. Hold the digital camera steady and then press the SHUTTER button completely down to take a picture.

Using the Self-timer

Use the self-timer to set a delay from the time the shutter button is pressed to the time the image is shot.

1. Turn the power on, and set the digital camera to the Capture mode.
2. Press the LEFT/SELF-TIMER button to change the self-timer mode.
   Each time the LEFT/SELF-TIMER button is pressed the self-timer icon changes.

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Off: Don't use self-timer.

2 Seconds: The shutter release will delay for 2 seconds.

5 Seconds: The shutter release will delay for 5 seconds.

10 Seconds: The shutter release will delay for 10 seconds.

3. Press the SHUTTER button to take a picture.
4. After Self-timer begins, the self-timer LED will flash. one second for a flash, till count down is over.

Using the Flash

The flash is not only for taking pictures when there is insufficient light, but also for when the subject is in shade or with backlight conditions. Pressing the RIGHT/FLASH button cycles your camera through the various flash modes. The flash will not activate during continuous shooting or movie recording.

1. Set the digital camera to the Capture mode.
2. Press the RIGHT/FLASH button to change the flash mode.
   Each time the flash button is pressed, the flash icon changes.

Auto: Automatically turn on/of

Flash on: Force on the flash

Flash off: Force off the flash

3: Press the SHUTTER button to take a picture.

Note:

When the battery power level is low, the flash strobe does not work. press the RIGHT/FLASH button, the message shows "Low battery" on the LCD monitor.

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Recording a video clip

1. Turn on the digital camera, press the DOWN/MODE button to set the digital camera to video record mode.
2. Zooming:
   Press the T or W button to zoom in or zoom out the screen. The value of magnification level appears on the LCD monitor.
3. Press the SHUTTER button to start recording.
4. Press the SHUTTERagain to end the recording. If the memory is full the video camera will stop recording automatically.

- On the upper of the LCD monitor displays the recorded time.
- Don't remove the card when video recording, Or, it may cause the digital camera can not work normally.

Recording audio

1. Turn on the camcorder and set the camera to audio record mode ( ).
2. Press the SHUTTER button to start recording.
3. Press the SHUTTER button again to end the recording. If the memory is full the camera will stop recording automatically.

4. Using the menu in record mode

When a menu is displayed, the UP, DOWN, OK button are used to make the desired setting.
Menu in capture mode

1. Turn on the digital camera and set it to capture mode.
2. Press the MENU button to display the menu, and press the LEFT or RIGHT buttons to select the desired menu.
3. Press the UP or DOWN buttons to select an item.
4. Press the OK button to enter the submenu.
5. Use the UP or DOWN buttons to select the desired item.
6. Press the OK button to confirm the setting and close the menu.

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Menu item	Function	
Scene	You can select the scene mode according to the image your wish to capture. There are 9 available modes. [Auto]/[Night Portrait]/[Night Scenery]/[Portrait]/[Scenery] [Sport]/[Party]/[Beach]/[High Sensitivity	
Image Size	There are eight options for choice: [12M]: 4000x3000; [10M]: 3648x2736; [8M]: 3264x2448; [7M]: 3072x2304; [5M]: 2592x1944; [3M]: 2048x1536; [2M]: 1600x1200; [VGA]: 640x480;	
Anti-Shake	Use the function to aviod our hands shaking when taking pictures.There are two options for choice.[On]/[Off]	
Face Detect	Use this function to detect our faces when taking pictures. There are three options for choice. [On]/[Off]	
Smile Capture	Sets smile capture is on, Face Detect will be automatically opened. Once it detects smile, the camera will auto take a picture. [On]/[Off]	
Shooting	Multi-Snapshot	Use this function to take 6 pictures continuously. [On]: Press the shutter button once to take six pictures continuously. [Off]: Press the shutter button once to take one picture.
	Panorama	Use the function to shoot an entire surrounding area. Shooting the directional position at 180 degrees horizontally and 90 degrees vertically. [Off]/[Up]/[Right]

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Shooting	Self Timer	Use the self-timer to set a delay from the time the shutter button is pressed to the time the image is shot. [Off]/[2 Seconds]/[5 Seconds]/ [10 Seconds]
Capture Setting	ISO	The ISO menu allows you to set the level of sensitivity that your camera has to light in the surrounding environment. [Auto]/[100]/[200]/[400]
	Date	This function can be used to add a date or time to your pictures as you take them. There are three items for option: [On]: Add the recording date & time to printed images. [Off]: Do not add the recording date & time to printed images. [Set Date]: Allows you to set the date and time for the digital camera.
Image Setting	Exposure	Set the exposure value manually to compensate for unusual lighting conditions such as indirect indoor lighting, dark backgrounds, and strong backlighting. The exposure value rangeis –3 to +3.
	White Balance	Adjust the white balance to suit different light sources. There are five items for option: [Auto]/[Daylight]/[Cloudy]/[Incandescent]/[Fluorescent]

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Image Setting	Frequency	Light Frequency should be set to either 60Hz or 50Hz depending on your region. [50HZ]/[60HZ]
	Image Quality	Select a lower image quality to decrease the image size in order to capture more images. There are three options for choice: [Super Fine]/[Fine]/[Normal]
	Sharpness	You can set the level of sharpness in the images taken with your camera. The sharpness level dictates if the edges of objects in the image are more or less distinct. [Sharp]/[Normal]/[Soft]
	Effect	Set the color effect to add a color tone to the picture. [Normal]/[B&W]/[Sepia]/[Red]/ [Green]/[Blue]/[Sunset]/[Warm]/ [Cool]/[Over Exposure]/[IR]/[Binary]/ [Vivid]/[Undertone]/[Dog Eye]/[Aibao]/ [Gothic]/[Japan Style]/[LOMO]/ [Negative]
	Saturation	Sets the image's saturation. [High]/[Normal]/[Low]

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Menu in video mode

1. In video record mode press the MENU button to display the menuand press the LEFT or RIGHT buttons to select the desired menu.
2. Press the UP or DOWN buttons toselect an item.
3. Press the OK button to enter the submenu.
4. Use the UP or DOWN buttons to select the desired item.
5. Press the OK button to confirm the setting and exit the menu.

Menu item	Function	
Size	Select small movie size to record longer time. There are four items for option: HD:1280x720 HD; D1:720x480; VGA: 640x480; QVGA: 320x240	
Image Setting	Exposure	Set the exposure value manually to compensate for unusual lighting conditions such as indirect indoor lighting, dark backgrounds, and strong backlighting. The exposure value range is –3 to +3.
	White Balance	Adjust the white balance to suit different light sources. There are five items for option: [Auto]/[Daylight]/[Cloudy]/ [Incandescent]/[Fluorescent]
	Frequency	Light Frequency should be set to either 60Hz or 50Hz depending on your region. [50HZ]/[60HZ]

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Image Setting	Image Quality	Select a lower image quality to decrease the image size in order to capture more images. There are three options for choice: [Super Fine]/[Fine]/[Normal]
	Sharpness	You can set the level of sharpness in the images taken with your camera. The sharpness level dictates if the edges of objects in the image are more or less distinct. [Sharp]/[Normal]/[Soft]
	Effect	Set the color effect to add a color tone to the picture. [Normal]/[B&W]/[Sepia]/[Red]/[Green]/[Blue]/[Sunset]/[Warm]/[Cool]/[Over Exposure]/[IR]/[Binary]/[Vivid]/[Undertone]/[Dog Eye]/[Aibao]/[Gothic]/[Japan Style]/[LOMO]/[Negative]
	Saturation	Sets the image's saturation. [High]/[Normal]/[Low]

Setup menu

You can set the system items in setup menu.

1. Turn the power on and press the MENU button to display the menu.
2. Press the LEFT or RIGHT buttons to select [Setup] Menu.
3. Press the UP or DOWN buttons to select an item.
4. Press the OK button to enter the submenu.
5. Press the UP or DOWN buttons to select the desired item.
6. Press the OK button to confirm the setting and exit the menu.

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5. Playback

Menu item	Function
Auto Power Off	To save power, the digital camera is turned off automatically after a period of time. There are seven options for choice: [Off]/[1Minute]/[2 Minutes]/[3 Minutes]/[4 Minutes]/ [5 Minutes]/[10 Minutes]
Sound Effect	Sets the operation sound on or off.
Language	Select a on-screen language for all the display menus
LCD Brightness	Sets the LCD screen's brightness. [Dark]/[Normal]/[Bright]
Default Setting	To reset the entire menu and button operation settings to initial default. [Ok]/[Cancel]
Format	To erase all data stored on the memory card if you are using a memory card, or all data stored in the internal memory if there is no card inserted. All data will be deleted including protected files. Be sure to download important files to your computer before formatting. [Ok]/[Cancel]

Playback still image

1. Press the PLAYBACK button to playback mode.
   The latest recorded file appears on the LCD screen. If there are no images stored, a message [No File Exist] appears.
2. Press the LEFT or RIGHT buttons to preview the previous or next image.
3. Press the UP button to play slide show. Any button pressed will exit.
4. Zooming: Press the T or W button to zoom in or zoom out the image. When the picture is enlarged press the UP, DOWN, LEFT, RIGHT button to browse the details of the image.

5: Press the OK button to resume the normal mode.

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Playing back movie clips

1. Set the digital camera to playback mode.
2. Press the LEFT or RIGHT buttons to select the movie clips you want to playback.
3. Press the SHUTTER button to start playing and press it again to pause, press UP button to end the playing.

Playing back audio files

1. Press the PLAYBACK button to set the digital camera to playback mode.
2. Press the LEFT or RIGHT buttons to select the audio file you want to Playback.
3. Press the SHUTTER button to start playing, press the OK button to pause and press it again to continue, press the SHUTTER button again to end the playing.

Viewing Thumbnails

Press the W button in playback mode to view all files in thumbnails mode. Use the LEFT/RIGHT/ UP/ DOWN buttons to select a file. Press the OK or T button to view the file in full screen.

Menu in playback mode

1. In playback mode press the MENU button to display the menu, and press the LEFT or RIGHT buttons to select the desired menu.
2. Press the UP or DOWN buttons to select an item.
3. Press the OK button to enter the submenu.
4. Press the UP or DOWN buttons to select the desired item.
5. Press the OK button to confirm the setting and close the menu.

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Menu item	Function
Rotate	Use this function to rotate the images. [90o]:Rotate the image 90 degrees in clockwise. [180o]: Rotate the image 180 degrees in clockwise. [270o]: Rotate the image 270 degrees in clockwise. [Cancel]: No rotate the image.
Protect	Use this function to protect the files from being deleted by accident. [Lock This]: Lock the current file. [Unlock This]: Unlock the current file. [Lock All]: Lock all files. [Unlock All]: Unlock all files.
Delete	Use this function to delete a single file or all files. [This Image]: Delete current singe file. [All]: Delete all files except locked files. [Cancel]: No delete the file.
Crop Image	Use this function to crop the images. [Crop]: Use the UP/DOWN/LEFT/RIGHT/ Zoom In/Zoom Out buttons to select a select a range, and then press the OK button to crop the selected range, at last press it again to save the cropped image. [Cancel]: No crop the image.
Pictbridge	Use this function to print a picture without a computer. Make sure you have a printer which supports picture bridge function and then connect it to the digital camera via the USB cable. [Pictbridge]/[Cancel]

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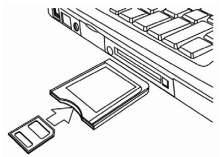
6. Making connections

Connecting the Digital camera to a PC

There are two ways to download files from the digital camera's internal memory or memory card to a Computer:

- By inserting the memory card into a card reader
- By connecting the camera to a computer using the supplied USB cable.

Using a Card Reader



1. Eject the memory card from the digital camera and insert it into a card reader that is connected to a computer.
2. Open [My Computer] or [Windows Explorer] and double-click the removable disk icon that represents the memory card.
3. Copy images from the card into a directory of your choice on the computer's hard disk.

Connecting the Digital camera to a PC with the USB Cable

1. Connect the supplied USB cable to the computer's USB port and turn on the digital camera. A icon"MSDC" appears on the screen when connection to the computer has been successfully completed.
2. Open [My Computer] or [Windows Explorer]. A „Removable Disk" appears in the drive list. Double-click the „Removable Disk" icon to view its contents. Files stored on the camera are located in the folder named „DCIM".
3. Copy the photos or files to your computer.

Notes:To enter PC CAM mode, at first you have to hold and press the shutter button for a few seconds, and connect the camcorder to the computer with the supplied USB cable, then turn on the camcorder. An icon „PC CAM" will appear on the screen. If not, please continue to press the shutter button and press the power button as well. An icon"PC CAM" appears on the screen.

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7. Software Installation

Insert the CD into your CD-ROM drive. The autorun menu appears:

The following software listed below will be seen on the menu of the bundled software CD on your computer screen:

- Install MAGIX Video easy SE- Installs software for editing video clips.
- Install MAGIX Photo Manager 10 - Installs software for editing pictures.

Click the items in the autorun menu to install the software.

If the autorun menu does not appear automatically, open the CD-ROM in [My Computer] or [Windows Explorer] and then double-click the file named [start.exe] to start the program. You can also click [Run] in the Windows Startup menu, enter „D:\start.exe“ (where D is your CD-ROM drive letter) in the text box, and click [OK].

Notes:

1. Open MAGIX Video easy SE or MAGIX Photo Manager 10, you have to register the software at first, then use program without any time limit.
2. Don’t forget to install the QuickTime Player during installing the MAGIX Video easy SE.
3. MAGIX Video easy SE and MAGIX Photo Manager 10 only include Windows XP and Windows Vista, Windows 7 platforms.

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System requirements for Magix Video Easy SE:

- Intel® Pentium 4 or AMD® Athlon® 1 GHz and higher
- 512 MB RAM
- 400 MB free hard disk memory and a DVD drive for program installation
- Graphics card with a screen resolution of at least 1024 x 768
- Sound card

Supported devices:

- Video, TV, or graphics cards with video input.

Magix Photo Manager 10:

System Requirements (minimum configuration)

- Microsoft® Windows® XP I Vista® I 7. PC with Intel® Pentium® or AMD® Athlon® 700 MHz or higher
- 256 MB RAM, 120 MB hard disk space for program files
- SVGA graphics card with min. 4 MB RAM, (min. resolution 1024 x 600, 16-bit high-color)
- Microsoft® compatible mouse.

8. Technical Specifications

Sensor	8.0Mega Pixels CMOS
Display	2.7" TFT Color LCD
Aperture	F=2.8, f=5.3mm
Shutter	Shutter: 1/2~1/1800sec.
Resolution	Still Image: [12M]: 4000x3000; [10M]: 3648x2736;

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Resolution	[8M]: 3264x2448; [7M]: 3072x2304; [5M]: 2592x1944; [3M]: 2048x1536; [2M]: 1600x1200; [VGA]: 640x480; Video: HD:1280x720 HD; D1:720x480; VGA: 640x480; QVGA: 320x240
Sensitivity	ISO Auto/100/200/400
White balance	Auto/Daylight/Cloudy/Incandescent/Fluoresce
Exposure control	-3EV to +3EV in 1step
Continue shot	YES
Self-timer	2 /5 /10 sec.
Storage	External memory: SD / MMC
Power Supply	Li-ion battery
Ambient temperature	Operating: 0° C to 40° C Storage: -20 to 60° C
Dimension	100.0x59.8x18.4 (mm)
Weight	Camera Body w/o battery: Approx. 75g

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